

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD120721\
 Data File : VD071186.D
 Acq On : 07 Dec 2021 16:32
 Operator : VA/SY
 Sample : M4959-13
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-5S

Quant Time: Dec 08 02:51:05 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D112921S.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 29 17:54:09 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

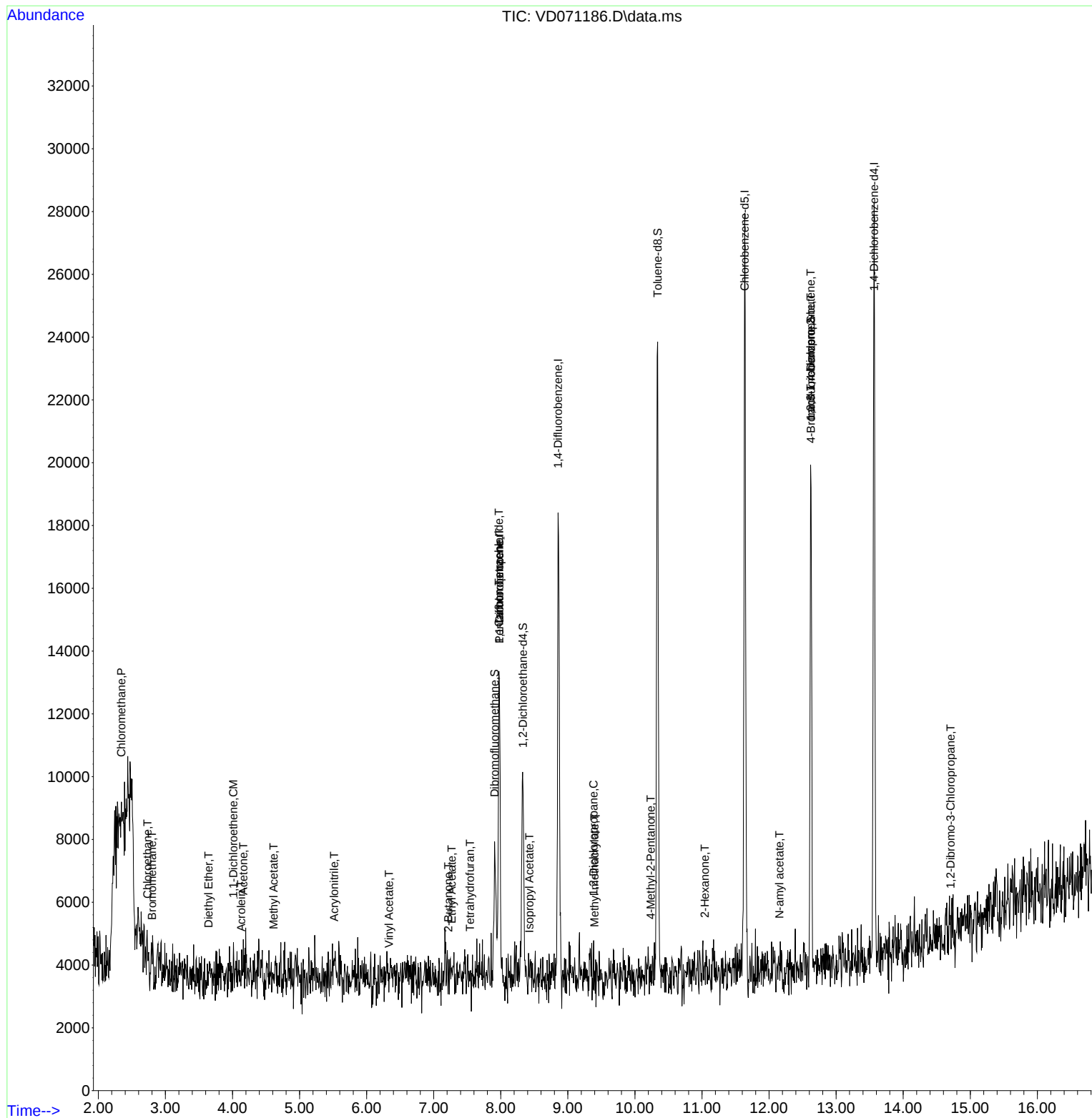
Internal Standards						
1) Pentafluorobenzene	7.979	168	6454	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.855	114	11015	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	13067	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	5943	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	5432	71.728	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 143.460%	
35) Dibromofluoromethane	7.908	113	3162	45.080	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 90.160%	
50) Toluene-d8	10.338	98	13448	50.381	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 100.760%	
62) 4-Bromofluorobenzene	12.626	95	5076	54.860	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 109.720%	
Target Compounds						
						Qvalue
3) Chloromethane	2.344	50	80	1.099	ug/l	# 42
5) Bromomethane	2.803	94	211	3.603	ug/l	# 3
6) Chloroethane	2.732	64	63	1.128	ug/l	# 39
8) Diethyl Ether	3.644	74	54	1.810	ug/l	# 1
12) 1,1-Dichloroethene	4.014	96	107	1.786	ug/l	# 1
13) Acrolein	4.132	56	56	10.821	ug/l	# 13
15) Acrylonitrile	5.514	53	135	9.305	ug/l	# 19
16) Acetone	4.161	43	340	45.621	ug/l	# 83
18) Methyl Acetate	4.614	43	66	1.181	ug/l	# 51
20) Methylene Chloride	4.967	84	105	Below Cal	#	7
23) Vinyl Acetate	6.332	43	64	27.681	ug/l	# 72
25) 2-Butanone	7.220	43	235	37.330	ug/l	# 45
29) Tetrahydrofuran	7.544	42	175	14.553	ug/l	# 34
36) 1,1-Dichloropropene	7.979	75	516	5.012	ug/l	# 41
37) Ethyl Acetate	7.267	43	68	1.529	ug/l	# 66
38) Carbon Tetrachloride	7.973	117	820	8.080	ug/l	# 12
41) Methacrylonitrile	7.514	41	75	Below Cal	#	12
43) Isopropyl Acetate	8.426	43	72	5.882	ug/l	# 47
45) 1,2-Dichloropropane	9.385	63	84	1.142	ug/l	# 44
48) Methyl methacrylate	9.396	41	59	1.355	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.238	43	62	31.737	ug/l	# 34
59) 2-Hexanone	11.043	43	73	36.239	ug/l	# 22
74) N-amyl acetate	12.155	43	207	7.258	ug/l	# 40
76) 1,2,3-Trichloropropane	12.620	75	3653	64.515	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.620	75	3653	139.246	ug/l	# 19
92) 1,2-Dibromo-3-Chloropr...	14.708	75	81	7.019	ug/l	# 4

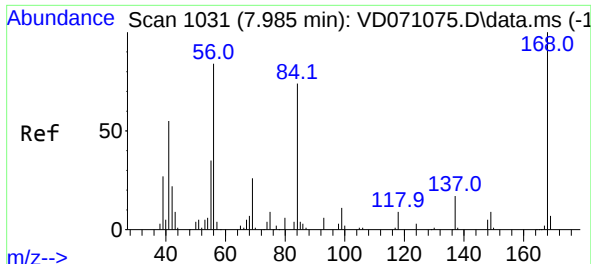
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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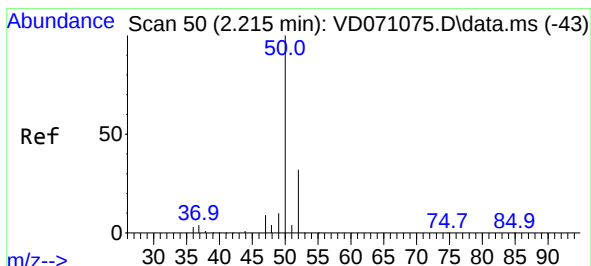
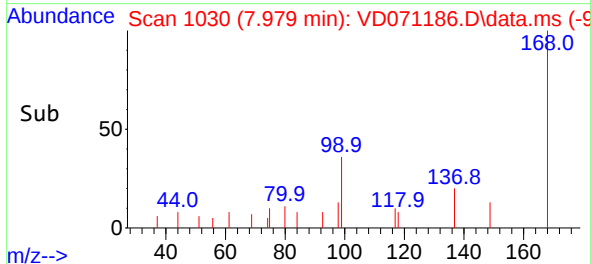
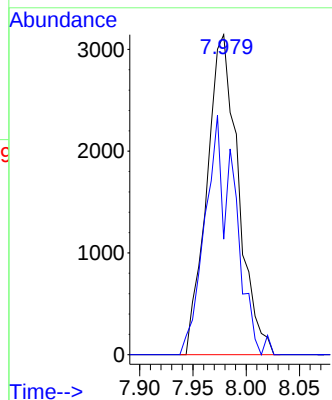
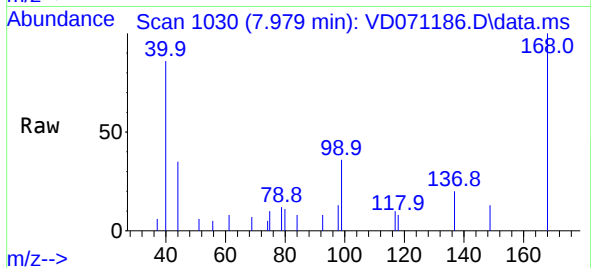




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. -0.006 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

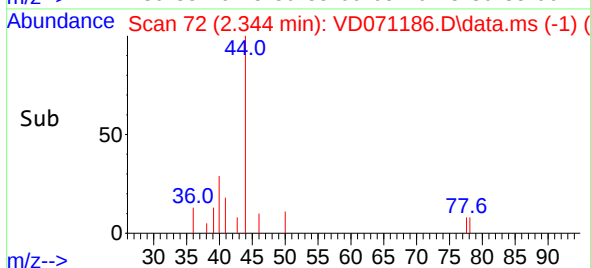
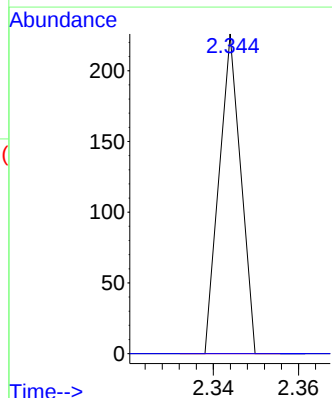
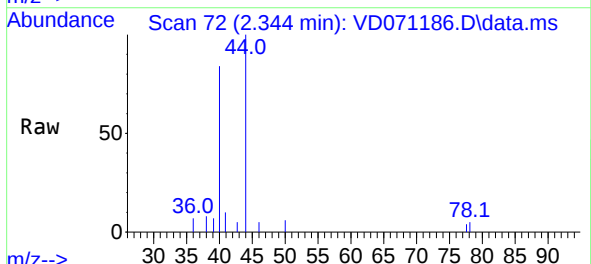
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

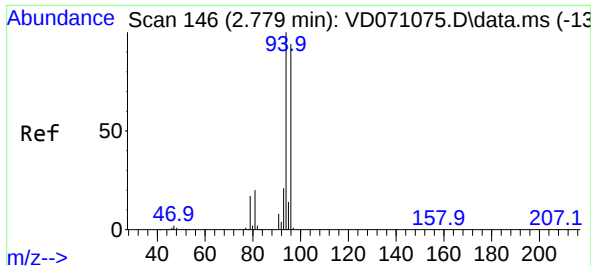
Tgt Ion:168 Resp: 6454
Ion Ratio Lower Upper
168 100
99 36.1 46.6 69.8#



#3
Chloromethane
Concen: 1.099 ug/l
RT: 2.344 min Scan# 72
Delta R.T. 0.129 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 50 Resp: 80
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

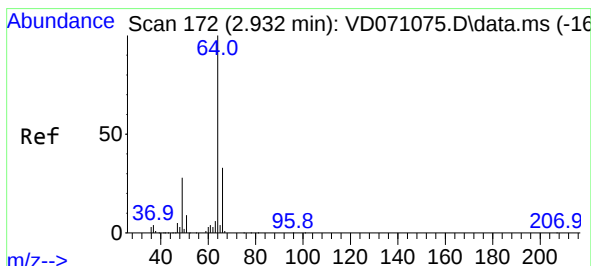
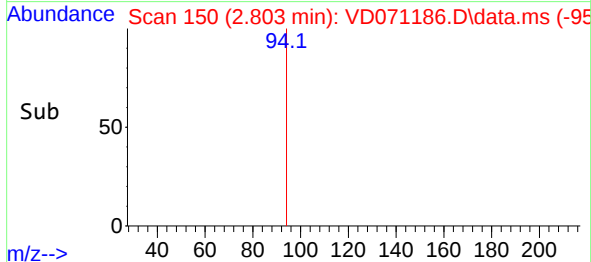
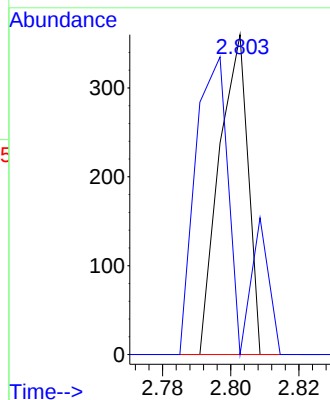
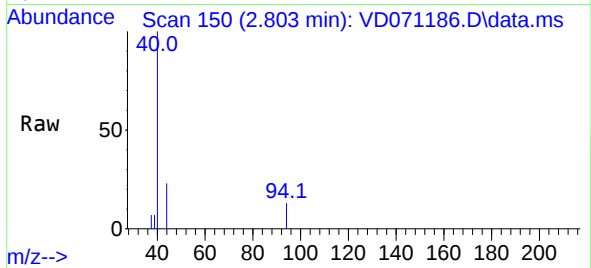




#5
Bromomethane
Concen: 3.603 ug/l
RT: 2.803 min Scan# 11
Delta R.T. 0.024 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

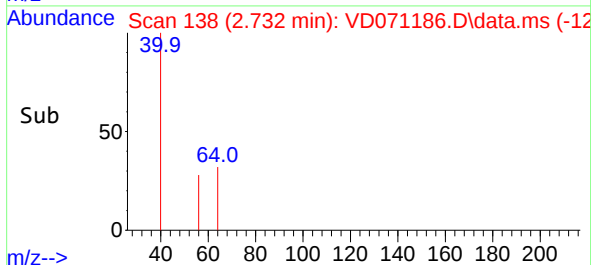
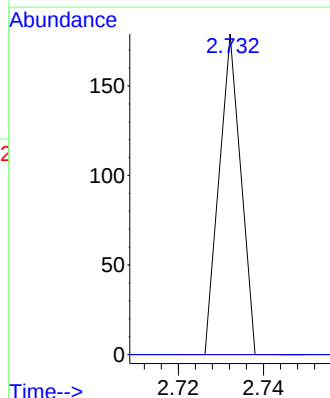
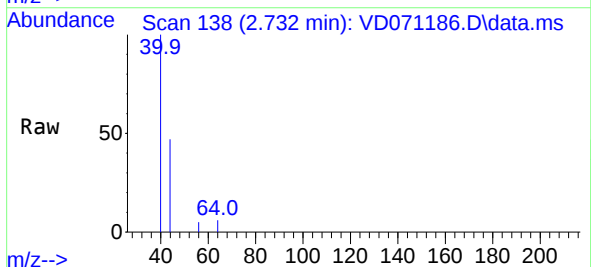
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

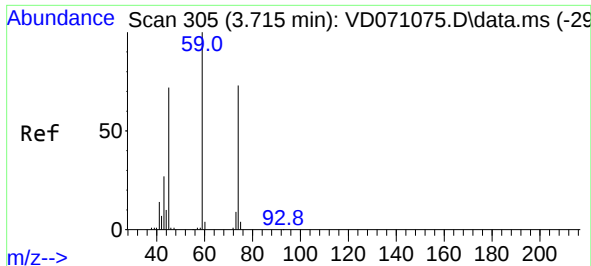
Tgt Ion: 94 Resp: 211
Ion Ratio Lower Upper
94 100
96 0.0 74.8 112.2#



#6
Chloroethane
Concen: 1.128 ug/l
RT: 2.732 min Scan# 138
Delta R.T. -0.200 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 64 Resp: 63
Ion Ratio Lower Upper
64 100
66 0.0 29.0 43.4#

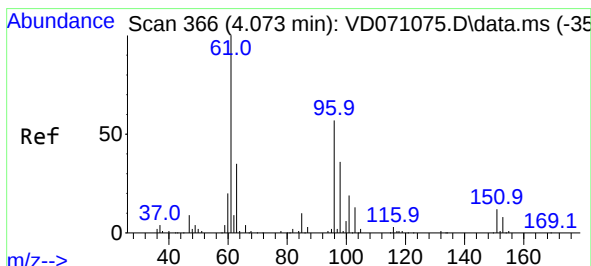
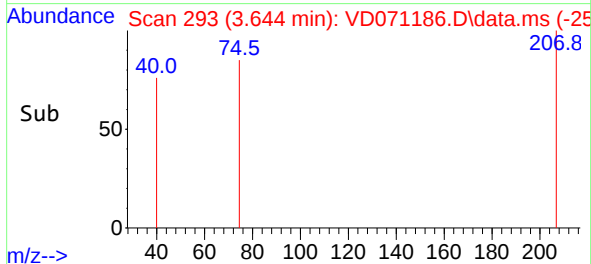
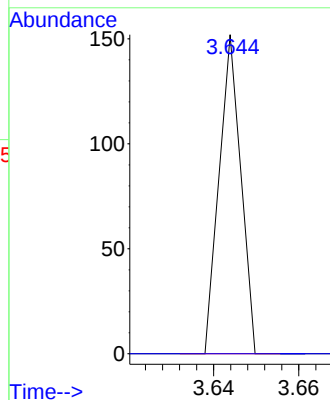
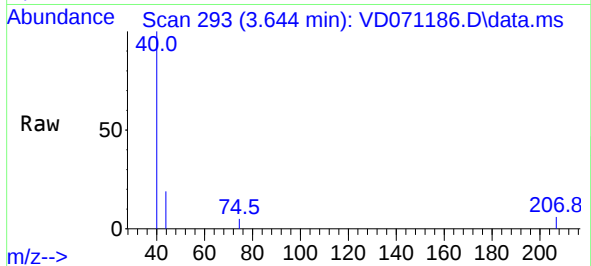




#8
Diethyl Ether
Concen: 1.810 ug/l
RT: 3.644 min Scan# 293
Delta R.T. -0.071 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

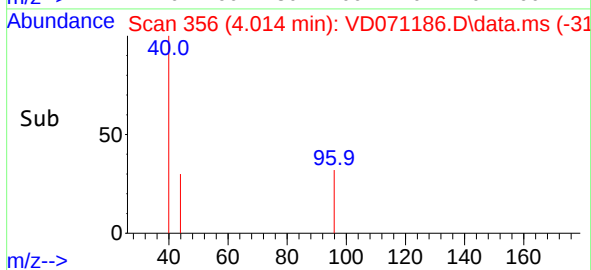
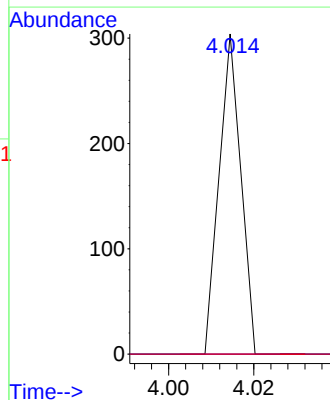
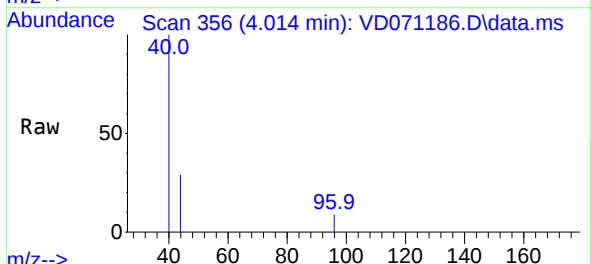
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

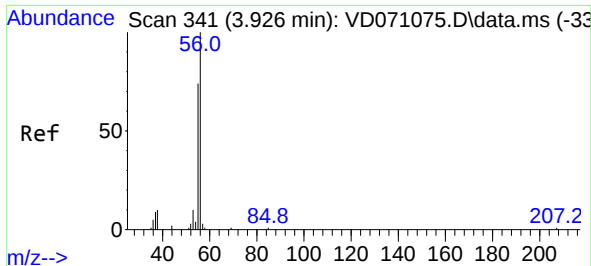
Tgt Ion: 74 Resp: 54
Ion Ratio Lower Upper
74 100
45 0.0 49.6 149.0#



#12
1,1-Dichloroethene
Concen: 1.786 ug/l
RT: 4.014 min Scan# 356
Delta R.T. -0.059 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 96 Resp: 107
Ion Ratio Lower Upper
96 100
61 0.0 120.3 180.5#
98 0.0 54.4 81.6#

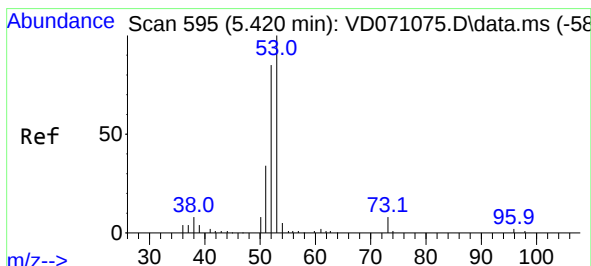
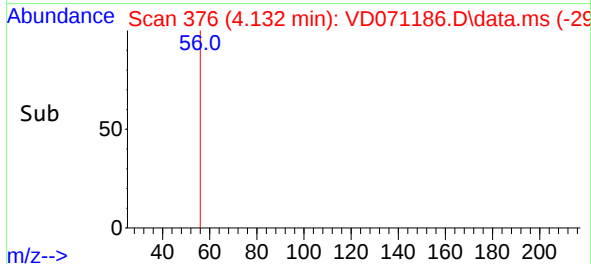
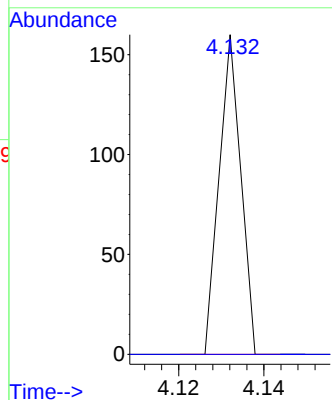
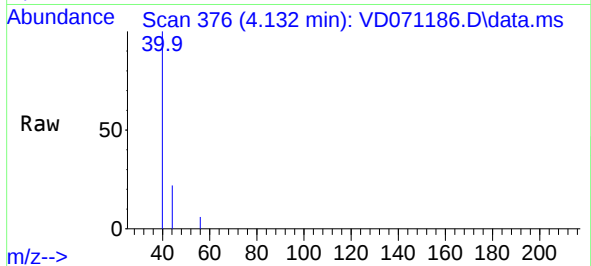




#13
Acrolein
Concen: 10.821 ug/l
RT: 4.132 min Scan# 31
Delta R.T. 0.206 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

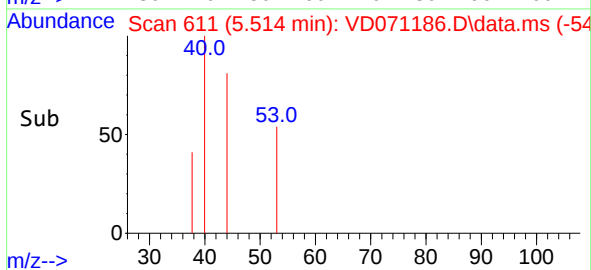
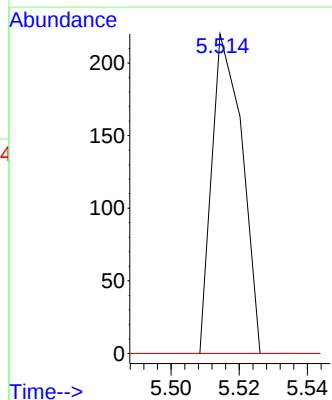
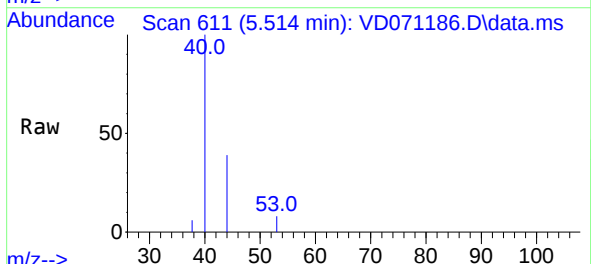
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

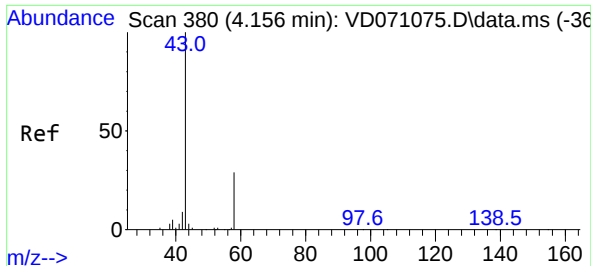
Tgt Ion: 56 Resp: 56
Ion Ratio Lower Upper
56 100
55 0.0 58.6 87.8#



#15
Acrylonitrile
Concen: 9.305 ug/l
RT: 5.514 min Scan# 611
Delta R.T. 0.094 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 53 Resp: 135
Ion Ratio Lower Upper
53 100
52 0.0 63.8 95.8#
51 0.0 28.5 42.7#

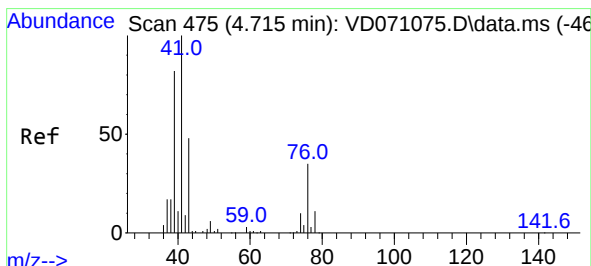
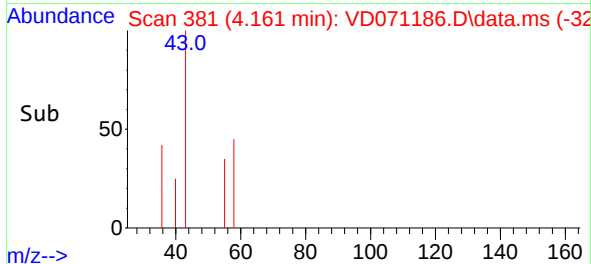
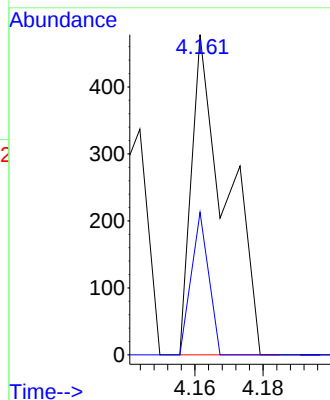
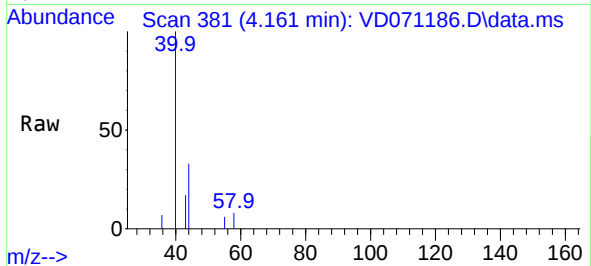




#16
Acetone
Concen: 45.621 ug/l
RT: 4.161 min Scan# 380
Delta R.T. 0.005 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

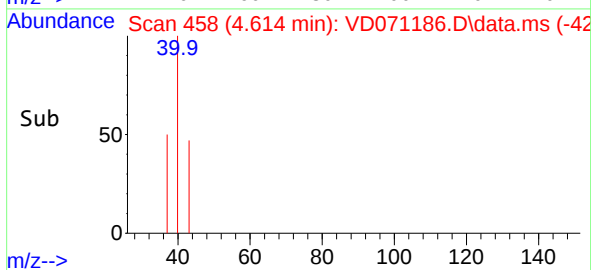
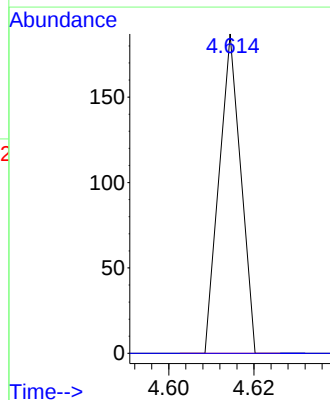
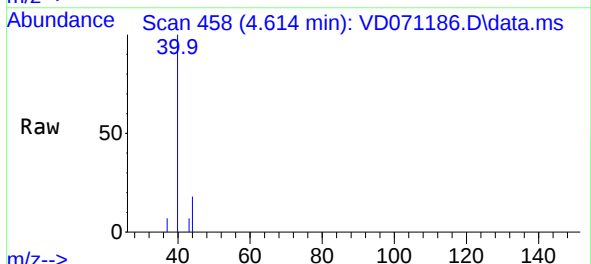
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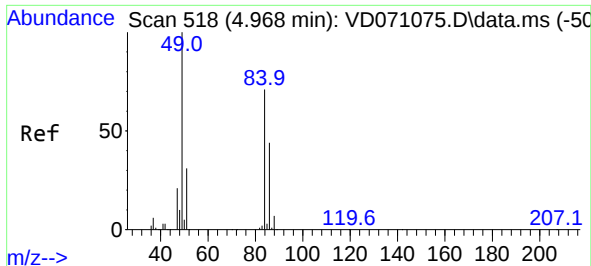
Tgt Ion: 43 Resp: 340
Ion Ratio Lower Upper
43 100
58 44.6 27.8 41.8#



#18
Methyl Acetate
Concen: 1.181 ug/l
RT: 4.614 min Scan# 458
Delta R.T. -0.101 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
74 0.0 19.3 28.9#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.967 min Scan# 51

Delta R.T. -0.001 min

Lab File: VD071186.D

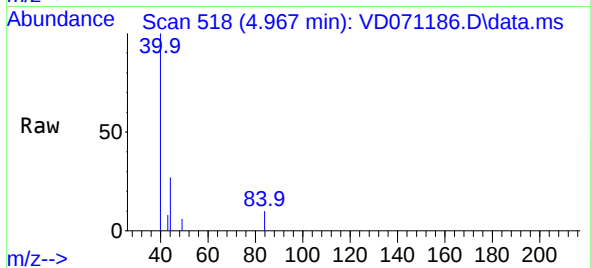
Acq: 07 Dec 2021 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-5S



Tgt Ion: 84 Resp: 105

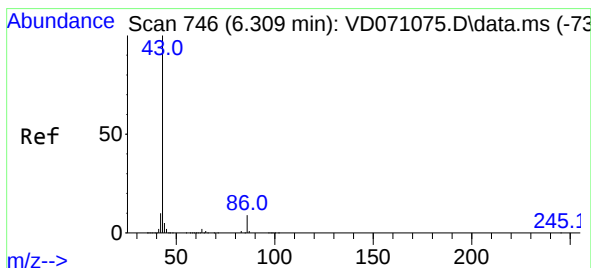
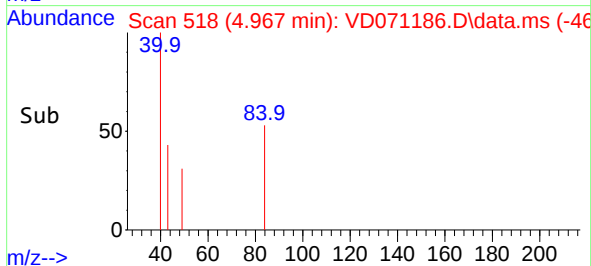
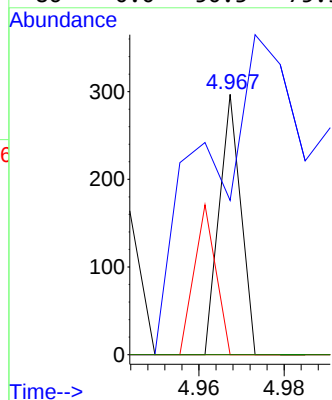
Ion Ratio Lower Upper

84 100

49 0.0 95.8 143.6#

51 0.0 30.9 46.3#

86 0.0 50.3 75.5#



#23

Vinyl Acetate

Concen: 27.681 ug/l

RT: 6.332 min Scan# 750

Delta R.T. 0.023 min

Lab File: VD071186.D

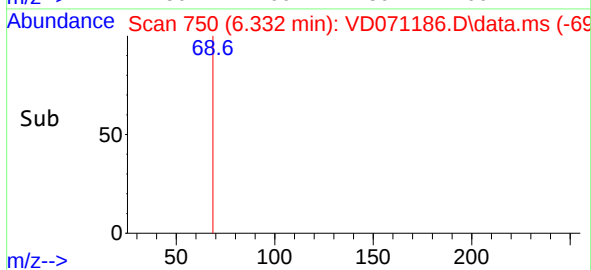
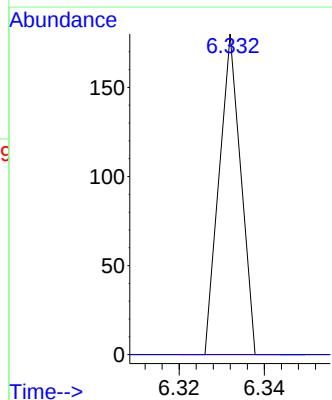
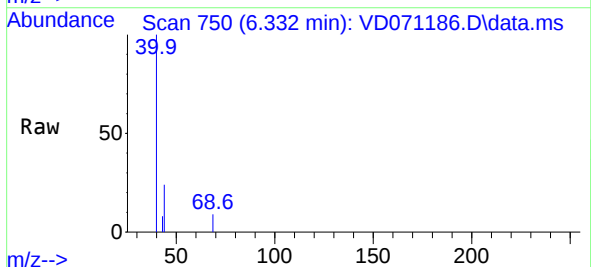
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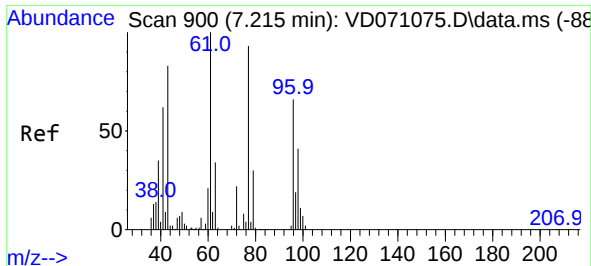
Tgt Ion: 43 Resp: 64

Ion Ratio Lower Upper

43 100

86 0.0 8.2 12.4#

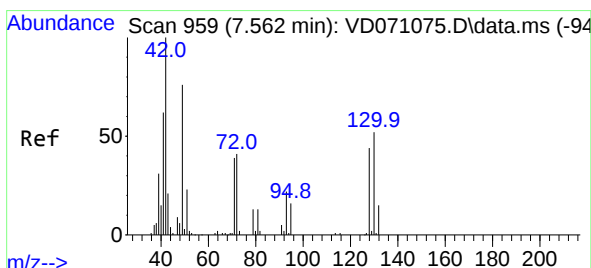
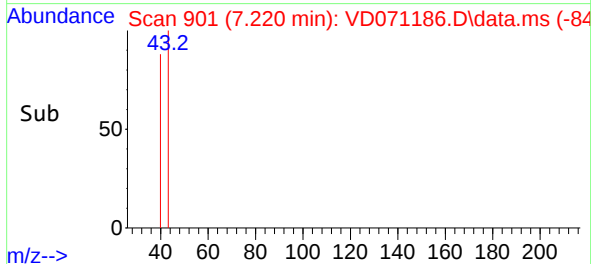
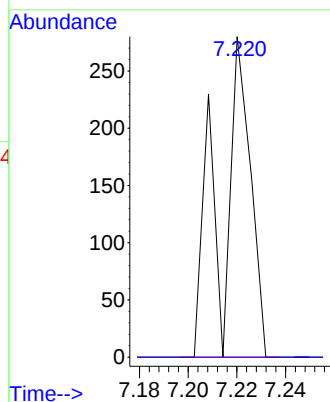
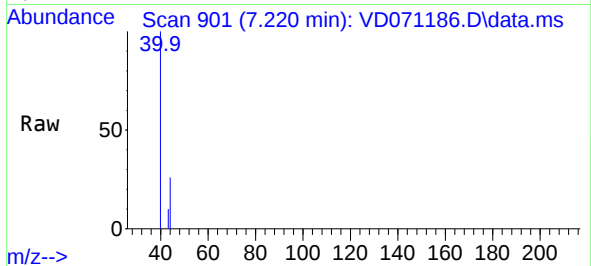




#25
2-Butanone
Concen: 37.330 ug/l
RT: 7.220 min Scan# 901
Delta R.T. 0.005 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

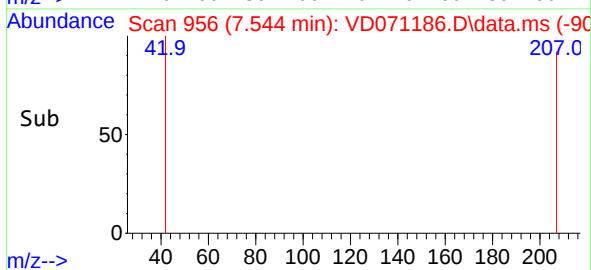
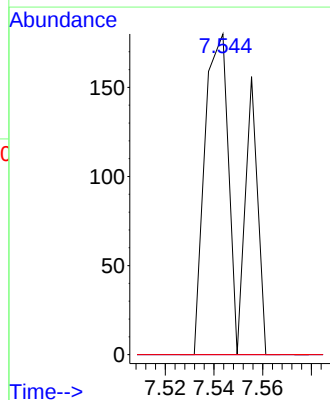
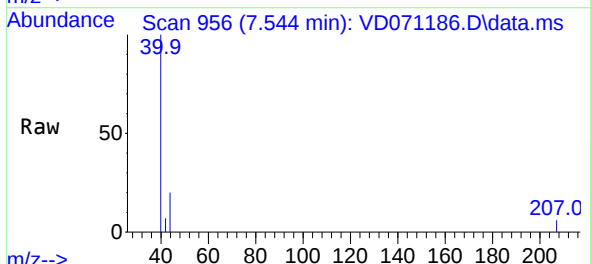
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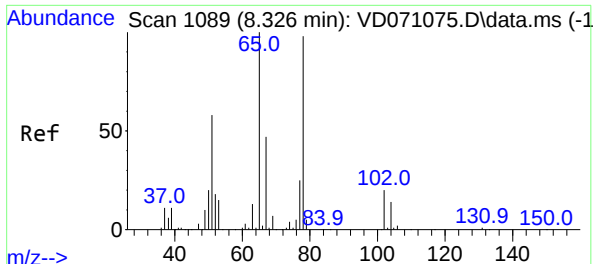
Tgt Ion: 43 Resp: 235
Ion Ratio Lower Upper
43 100
72 0.0 23.8 35.6#



#29
Tetrahydrofuran
Concen: 14.553 ug/l
RT: 7.544 min Scan# 956
Delta R.T. -0.018 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 42 Resp: 175
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 32.7 49.1#





#33

1,2-Dichloroethane-d4

Concen: 71.728 ug/l

RT: 8.332 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VD071186.D

Acq: 07 Dec 2021 16:32

Instrument :

MSVOA_D

ClientSampleId :

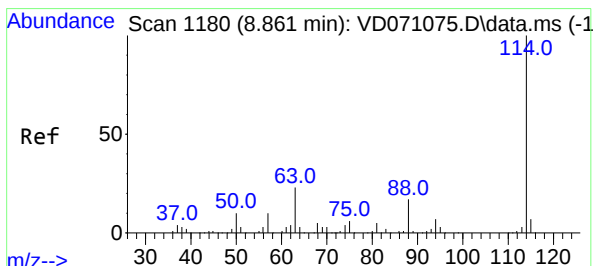
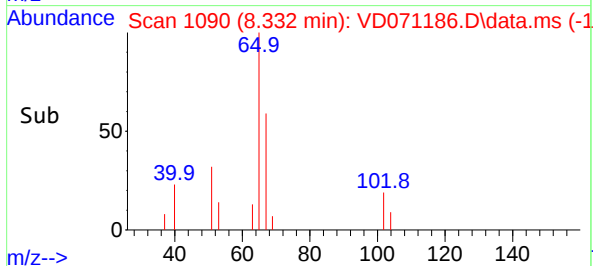
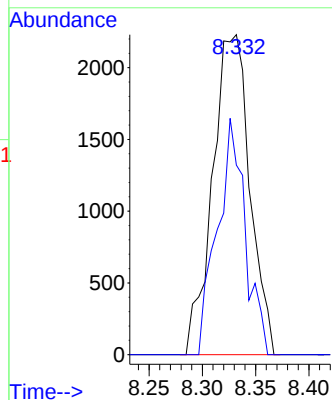
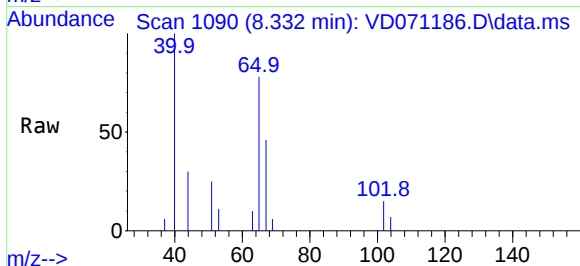
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Tgt Ion: 65 Resp: 5432

Ion Ratio Lower Upper

65 100

67 55.1 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. -0.006 min

Lab File: VD071186.D

Acq: 07 Dec 2021 16:32

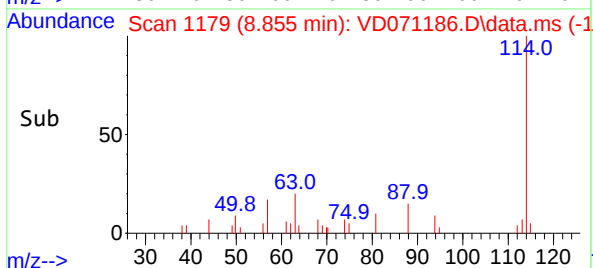
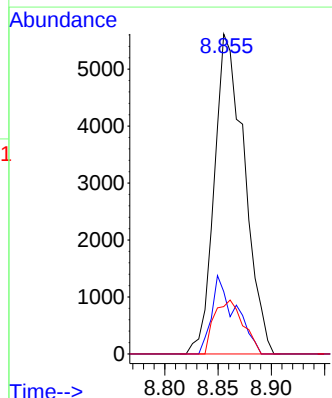
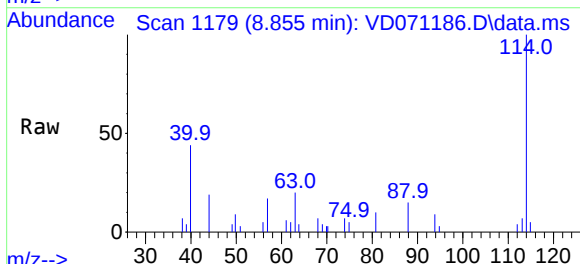
Tgt Ion: 114 Resp: 11015

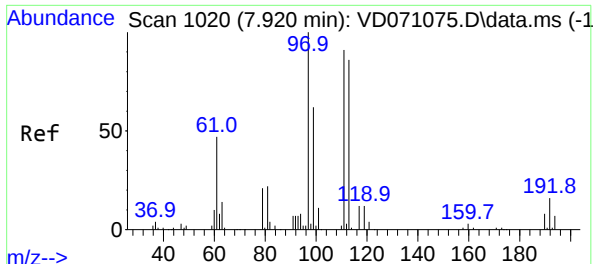
Ion Ratio Lower Upper

114 100

63 19.5 0.0 41.8

88 14.8 0.0 32.8

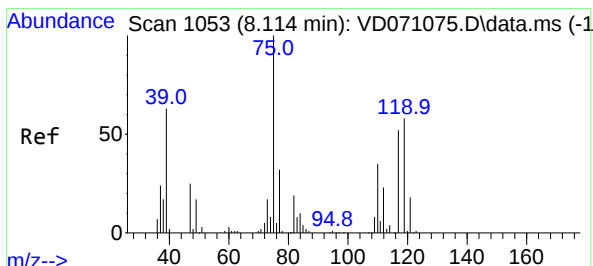
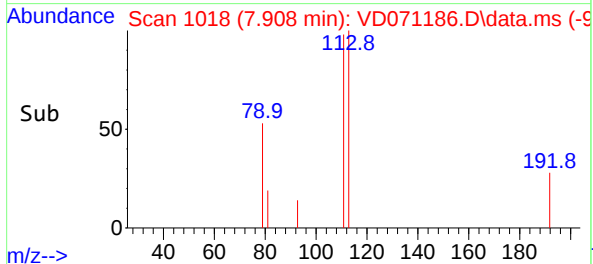
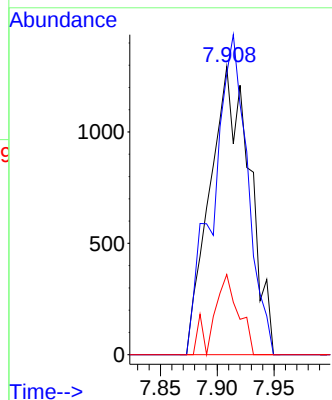
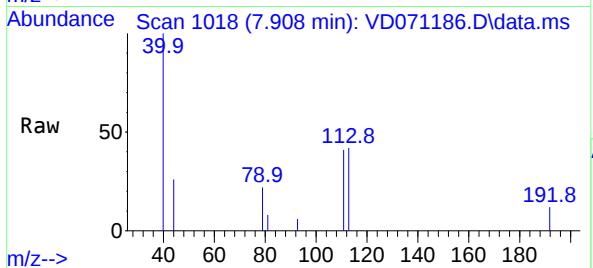




#35
Dibromofluoromethane
Concen: 45.080 ug/l
RT: 7.908 min Scan# 1018
Delta R.T. -0.012 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

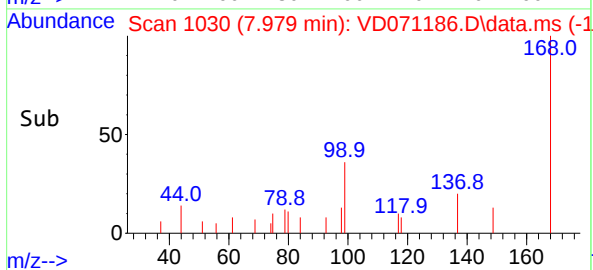
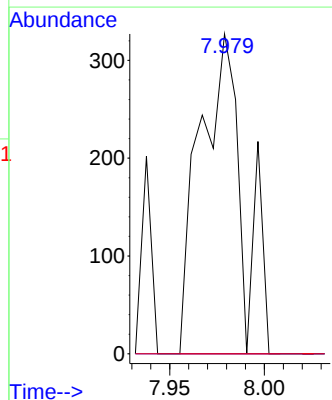
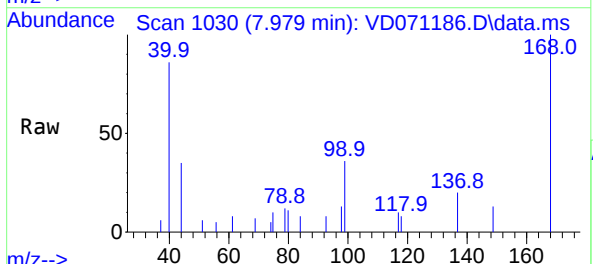
Instrument :
MSVOA_D
ClientSampleId :
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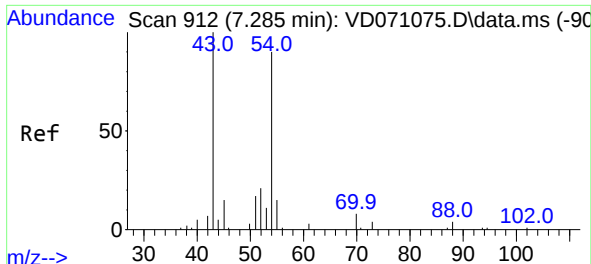
Tgt Ion:113 Resp: 3162
Ion Ratio Lower Upper
113 100
111 96.1 82.0 123.0
192 17.3 15.2 22.8



#36
1,1-Dichloropropene
Concen: 5.012 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.135 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 75 Resp: 516
Ion Ratio Lower Upper
75 100
110 0.0 17.8 53.4#
77 0.0 24.8 37.2#

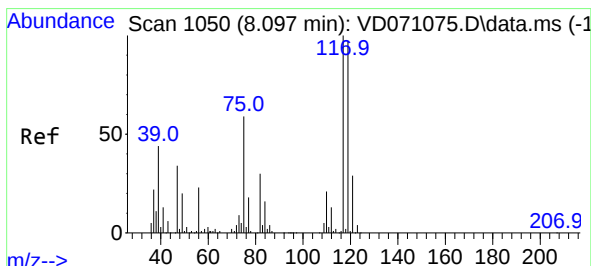
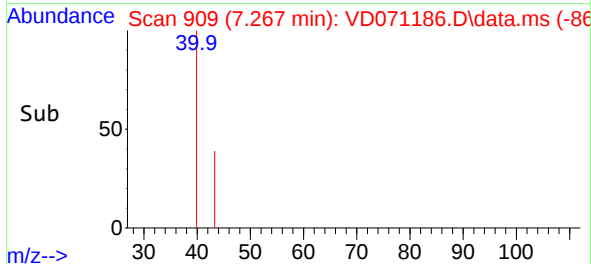
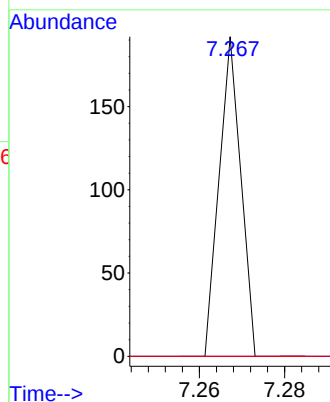
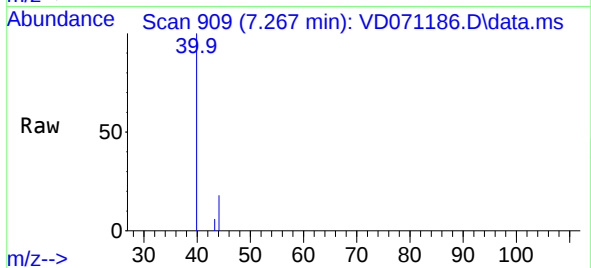




#37
Ethyl Acetate
Concen: 1.529 ug/l
RT: 7.267 min Scan# 909
Delta R.T. -0.018 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

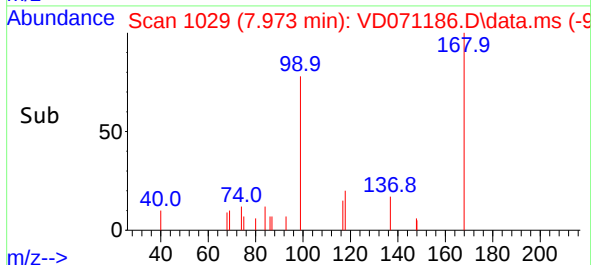
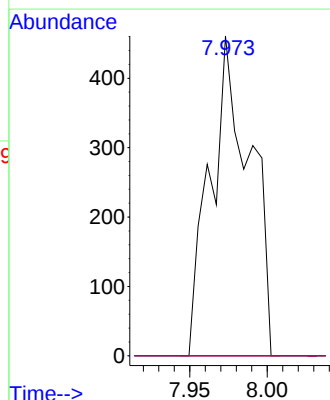
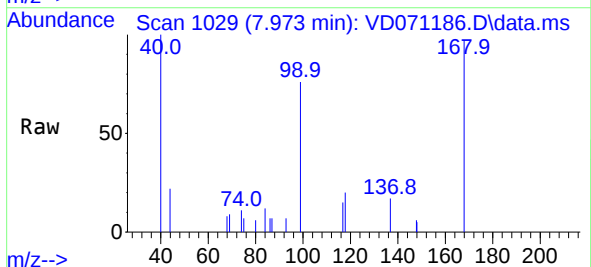
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MSVOA_D
ClientSampleId :
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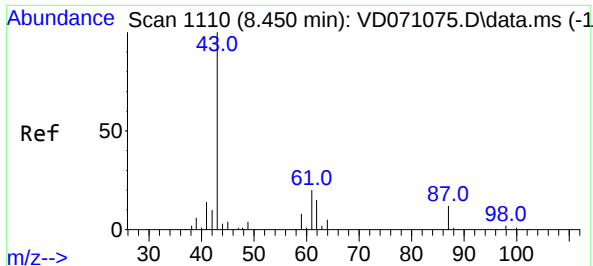
Tgt Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
61 0.0 13.0 19.6#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 8.080 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.124 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 117 Resp: 820
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#

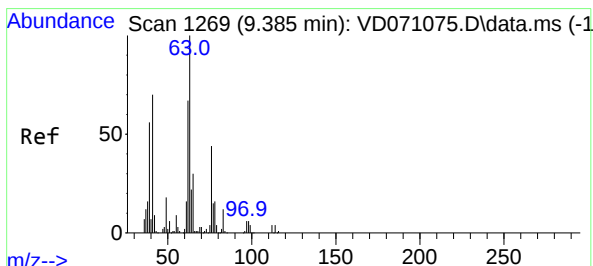
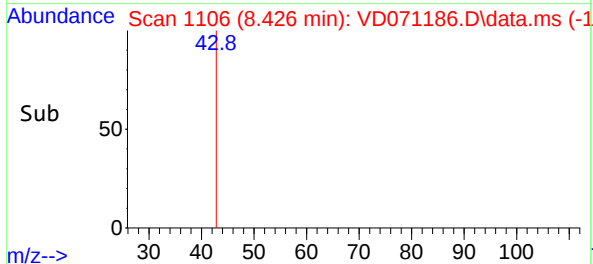
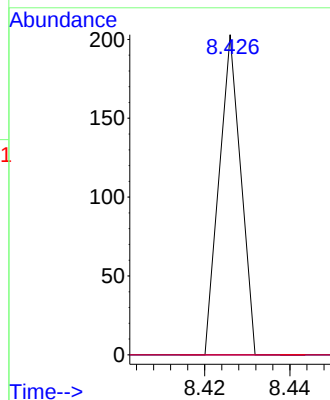
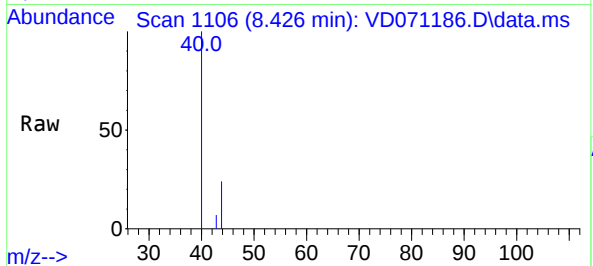




#43
Isopropyl Acetate
Concen: 5.882 ug/l
RT: 8.426 min Scan# 1110
Delta R.T. -0.024 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

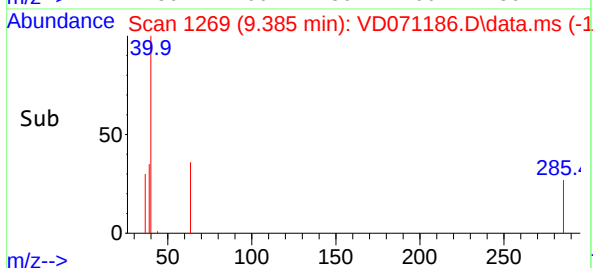
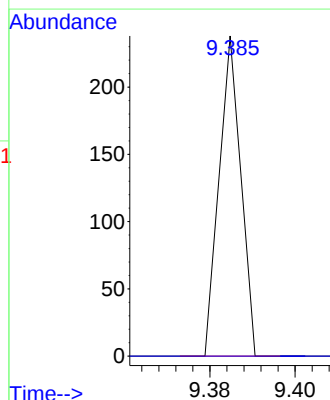
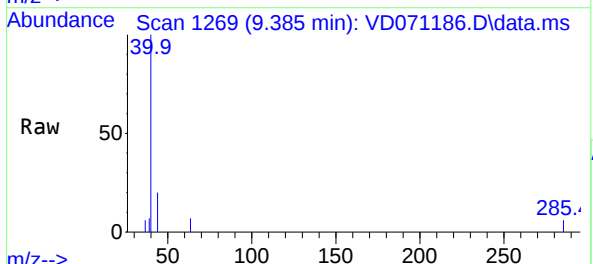
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MSVOA_D
ClientSampleId :
TP-5S

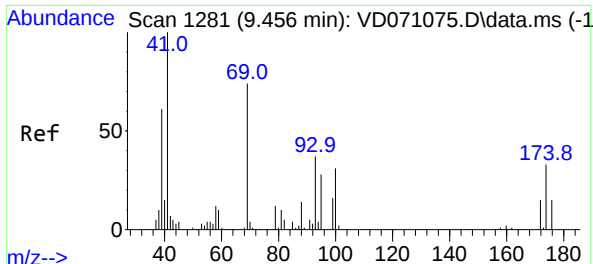
Tgt Ion: 43 Resp: 72
Ion Ratio Lower Upper
43 100
61 0.0 28.2 42.4#
87 0.0 10.7 16.1#



#45
1,2-Dichloropropane
Concen: 1.142 ug/l
RT: 9.385 min Scan# 1269
Delta R.T. -0.000 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 63 Resp: 84
Ion Ratio Lower Upper
63 100
65 0.0 24.2 36.2#

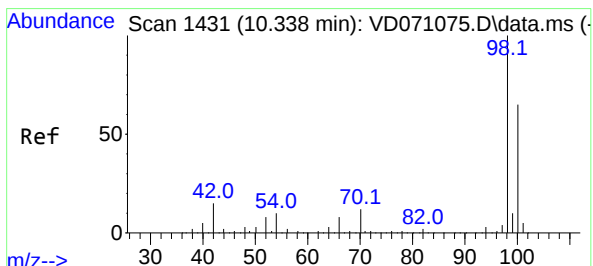
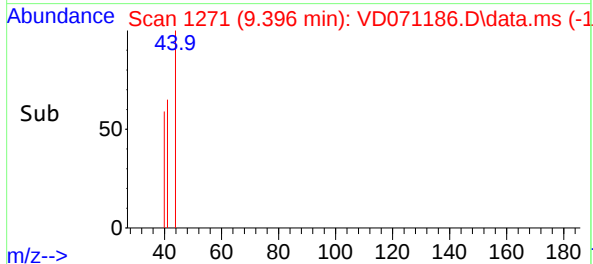
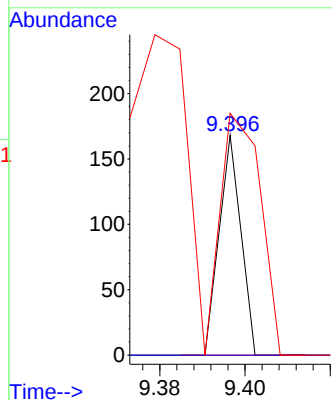
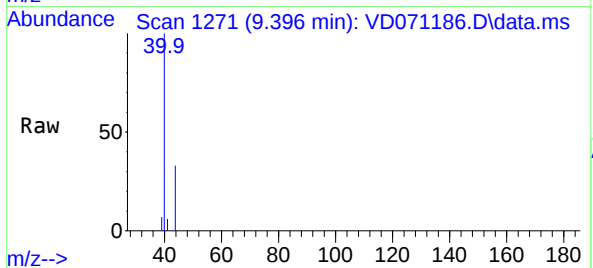




#48
Methyl methacrylate
Concen: 1.355 ug/l
RT: 9.396 min Scan# 11
Delta R.T. -0.060 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

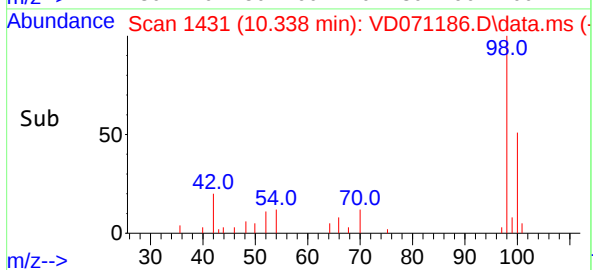
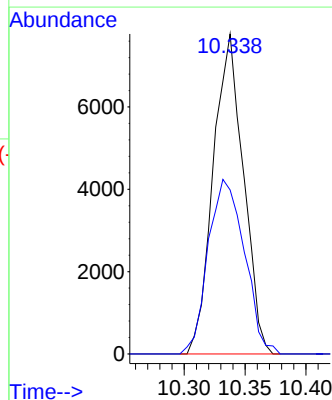
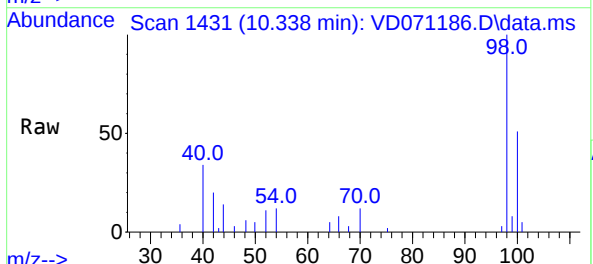
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

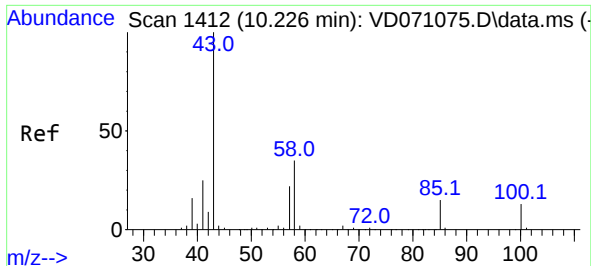
Tgt Ion: 41 Resp: 59
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 394.9 35.6 53.4#



#50
Toluene-d8
Concen: 50.381 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 98 Resp: 13448
Ion Ratio Lower Upper
98 100
100 65.4 51.8 77.6

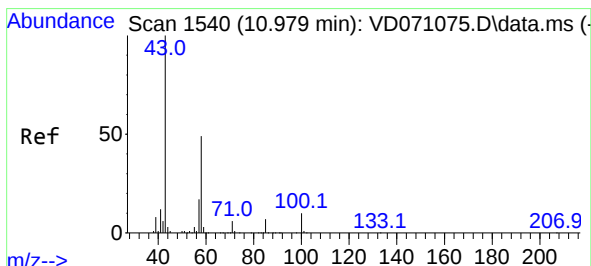
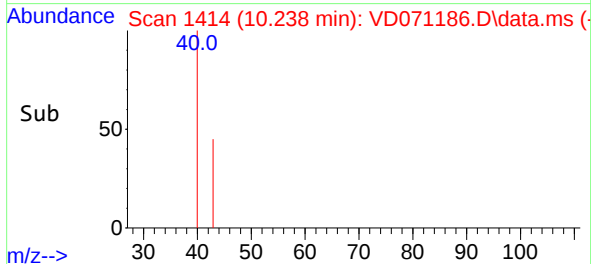
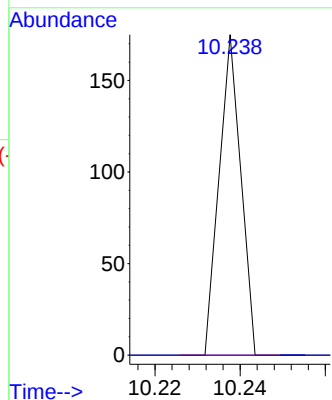
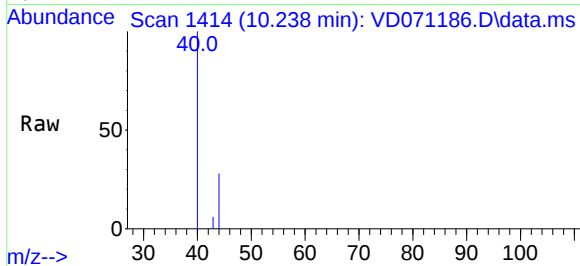




#51
4-Methyl-2-Pentanone
Concen: 31.737 ug/l
RT: 10.238 min Scan# 1412
Delta R.T. 0.012 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

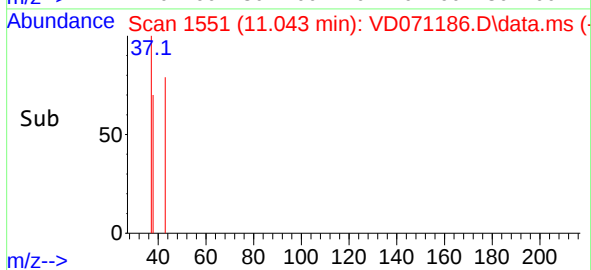
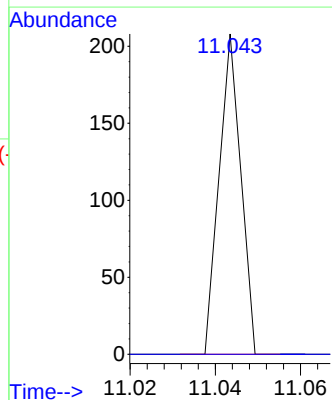
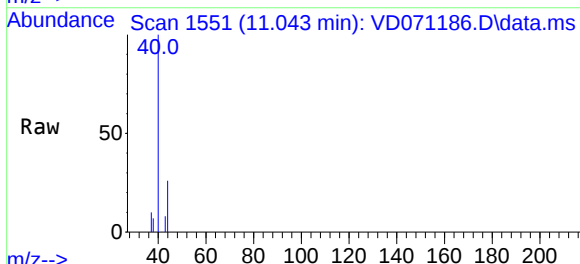
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

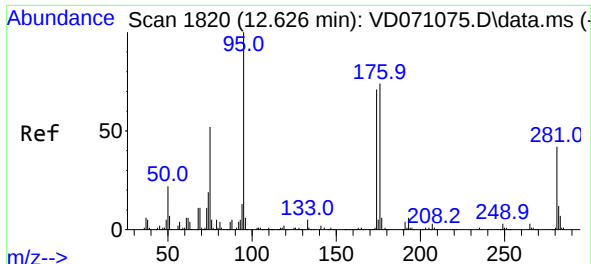
Tgt Ion: 43 Resp: 62
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#59
2-Hexanone
Concen: 36.239 ug/l
RT: 11.043 min Scan# 1551
Delta R.T. 0.064 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#

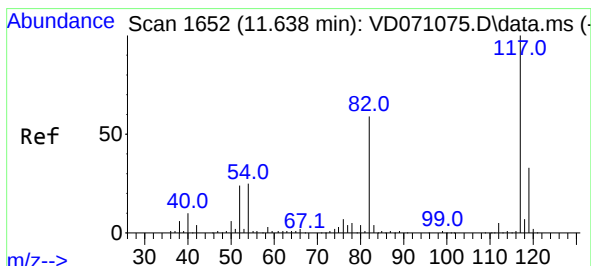
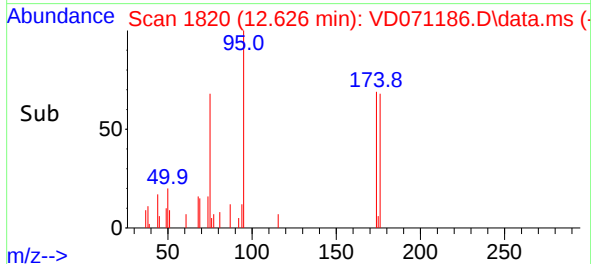
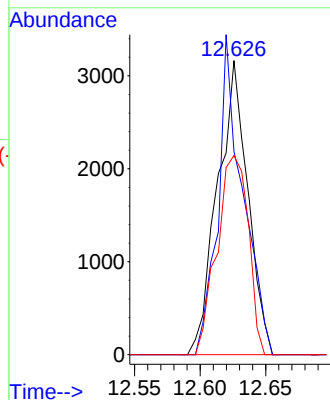
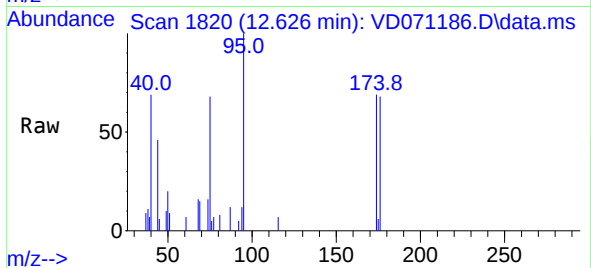




#62
4-Bromofluorobenzene
Concen: 54.860 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

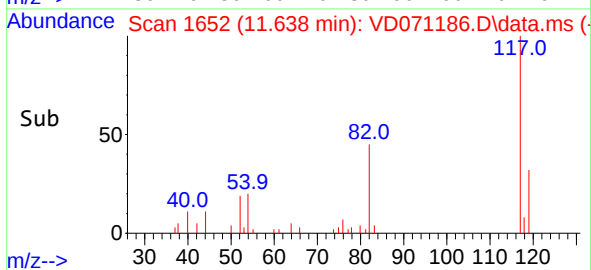
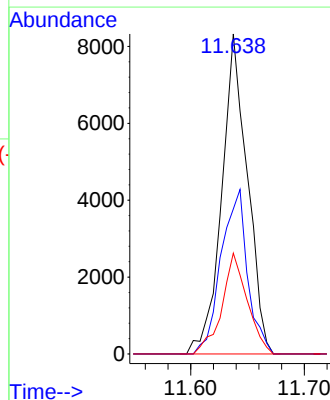
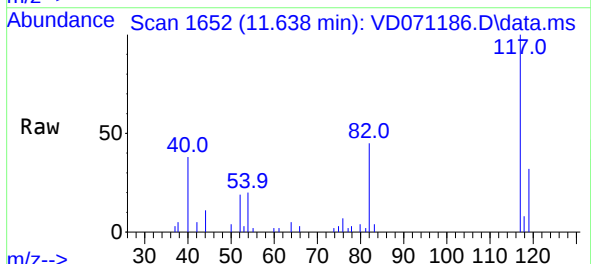
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ClientSampleId :
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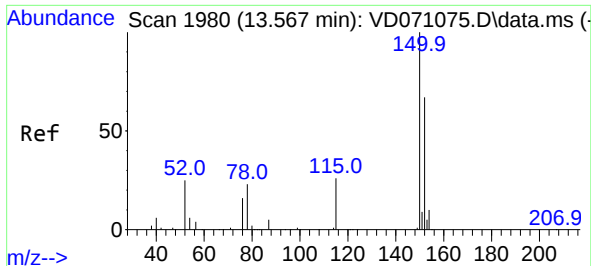
Tgt Ion: 95 Resp: 5076
Ion Ratio Lower Upper
95 100
174 88.7 0.0 159.4
176 70.1 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 117 Resp: 13067
Ion Ratio Lower Upper
117 100
82 45.3 44.7 67.1
119 31.5 26.2 39.4

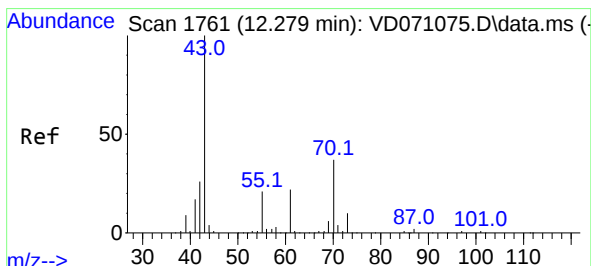
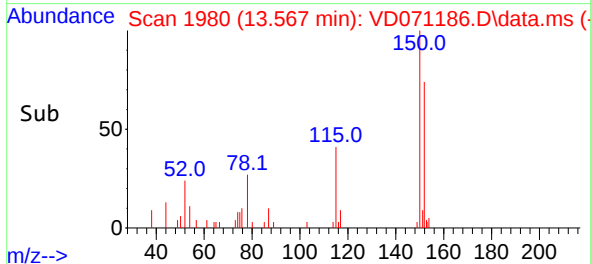
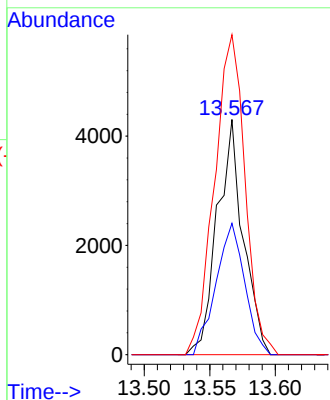
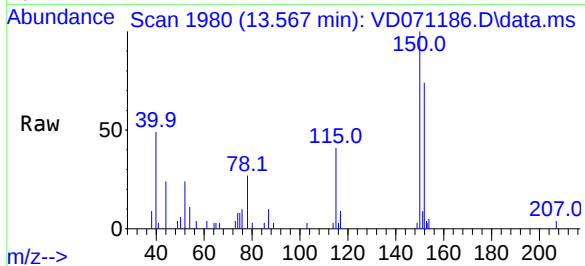




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. -0.000 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

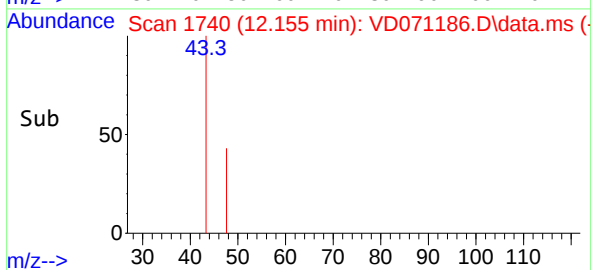
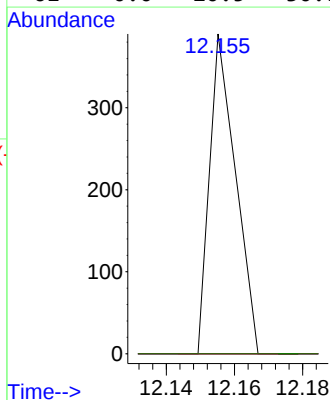
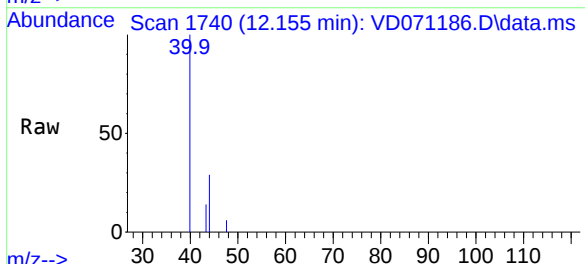
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ClientSampleId :
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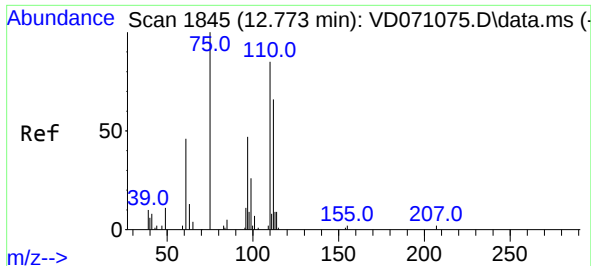
Tgt Ion:152 Resp: 5943
Ion Ratio Lower Upper
152 100
115 61.5 29.8 89.3
150 159.5 0.0 349.2



#74
N-ethyl acetate
Concen: 7.258 ug/l
RT: 12.155 min Scan# 1740
Delta R.T. -0.124 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 43 Resp: 207
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

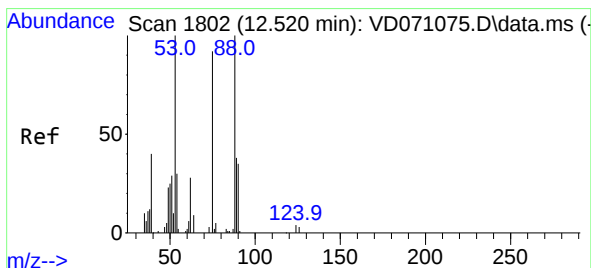
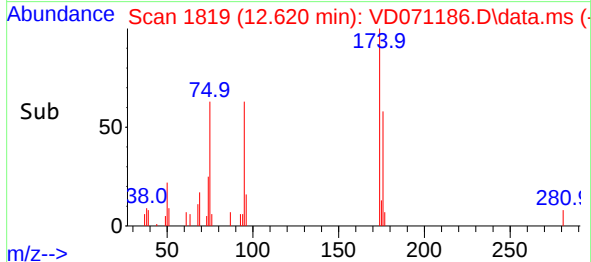
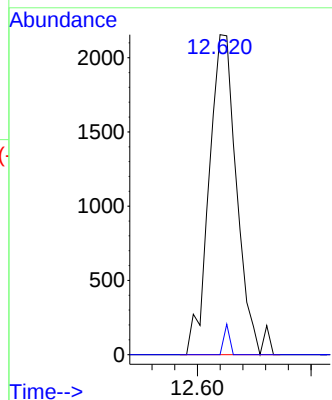
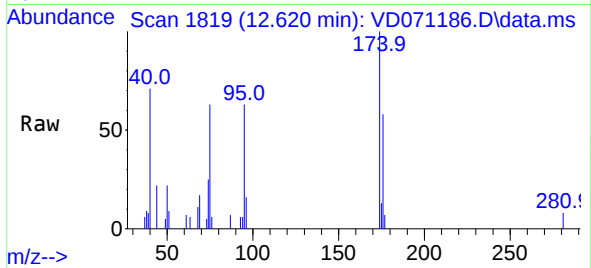




#76
1,2,3-Trichloropropane
Concen: 64.515 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.153 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

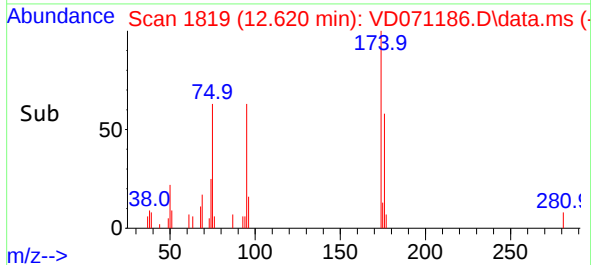
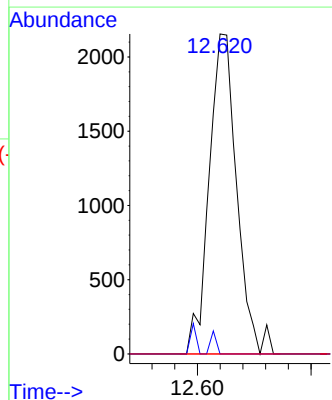
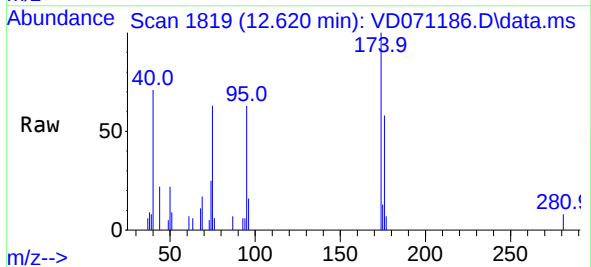
Instrument :
MSVOA_D
ClientSampleId :
TP-5S

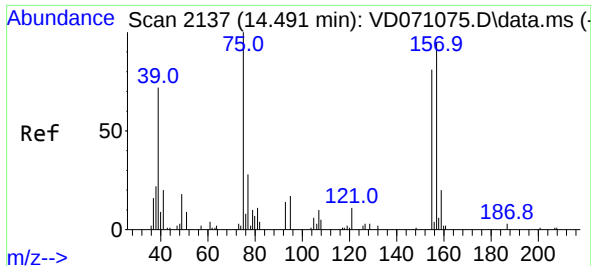
Tgt Ion: 75 Resp: 3653
Ion Ratio Lower Upper
75 100
77 2.0 158.4 475.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 139.246 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071186.D
Acq: 07 Dec 2021 16:32

Tgt Ion: 75 Resp: 3653
Ion Ratio Lower Upper
75 100
53 1.5 62.6 94.0#
89 0.0 34.5 51.7#





#92

1,2-Dibromo-3-Chloropropane

Concen: 7.019 ug/l

RT: 14.708 min Scan# 21

Delta R.T. 0.217 min

Lab File: VD071186.D

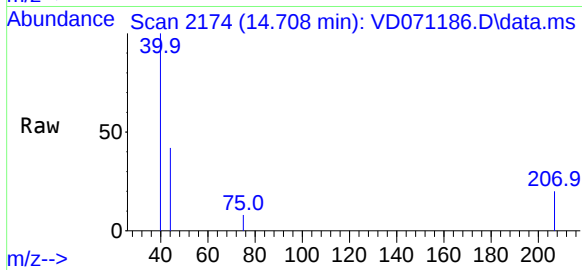
Acq: 07 Dec 2021 16:32

Instrument :

MSVOA_D

ClientSampleId :

TP-5S



Tgt Ion: 75 Resp: 81

Ion Ratio Lower Upper

75 100

155 0.0 40.0 120.0#

157 0.0 49.8 149.3#

